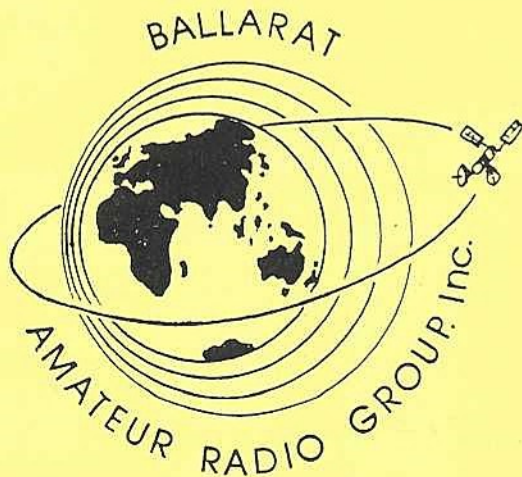


93/03 01

--- MARCH 1993 ---



# B.A.R.G. NEWS.

REGISTERED BY AUSTRALIA POST, PUBLICATION No. VBH3397

© Monthly Newsletter of the  
Ballarat Amateur Radio Group



THE JOHN MOYLE  
CONTEST

MARCH 20TH & 21ST.



John Moyle,  
Technical Editor



93/03 02



# BALLARAT AMATEUR RADIO GROUP INC. EXECUTIVE COMMITTEE 1992/93

|                     |                 |        | HOME   | WORK   |
|---------------------|-----------------|--------|--------|--------|
| PRESIDENT           | Ian Robinson    | VK3FD  | 358031 | 379175 |
| IMM. PAST PRESIDENT | Tom George      | VK3DMK | 355662 | 327234 |
| VICE PRESIDENT      | Cliff Bilston   | VK3CCB | 361249 | 330322 |
| SECRETARY           | Jim Wright      | VK3CFB | 327563 |        |
| TREASURER           | Harry Hekkema   | VK3KGL | 357563 |        |
| ASST. SECRETARY     | George Fowler   | VK3DOK | 326863 | 391954 |
| PUBLICITY OFFICER   | Norm D'Angri    | VK3LBA | 341613 |        |
| EDUCATION OFFICER   | Tom George      | VK3DMK | 355662 | 327234 |
| NET CO-ORDINATOR    | John Hazledine  | VK3CFH | 391971 | 391035 |
| TECHNICAL OFFICER   | Merv Hooley     | VK3KAW |        | 311317 |
| MEMBERS' REPS.      | Mary Curnow     | VK3FMC | 301927 |        |
|                     | Reg Carter      | VK3CAZ | 417585 |        |
|                     | Charlie Stewart | VK3DCS | 317425 |        |

## OFFICERS AND COMMITTEES

|                     |                  |        |        |        |
|---------------------|------------------|--------|--------|--------|
| QSL MANAGER         | Jeff Pigdon      | VK3PAP | 327041 | 311211 |
| AWARDS MANAGER      | Maurie Batt      | VK3XEX | 422245 |        |
| PROPERTY OFFICER    | Jeff Pigdon      | VK3PAP | 327041 | 311211 |
| HAMFEST CONVENER    | Tom George       | VK3DMK | 355662 | 327234 |
| WICEN COMMITTEE     | Gordon Cornell   | VK3FGC | 392427 | 391135 |
|                     | Geoff Smith      | VK3ADB | 332112 |        |
|                     | Tom George       | VK3DMK | 355662 | 327234 |
| TECHNICAL COMMITTEE | Ian McDonald     | VK3AXH |        | 311317 |
|                     | Dick Forrester   | VK3VU  | 357663 | 391001 |
|                     | Merv Hooley      | VK3KAW |        | 311317 |
|                     | Dick Antoziewicz | VK3AEX | 323273 | 311818 |
|                     | David McConnell  | VK3YNB |        |        |
|                     | Ben Orchard      | VK3TOP |        | 377836 |
| NEWSLETTER EDITOR   | Norm D'Angri     | VK3LBA | 341613 |        |

□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □

REPEATERS: VK3RBA - 146.750 MHz. Voice. Mt. Buninyong. (Ch. 3)  
 VK3RBS - 146.900 MHz. Voice. Smeaton Hill. (Ch. 6)  
 VK3RPC - 144.750 MHz. Packet Mt. Warrenheip  
 VK3RBU - 438.475 MHz. Voice. Mt. Hollowback

CLUB NET: Thursday nights at 8 pm.  
 Freq. - 3.610 MHz. +/- QRM.

FOX HUNTS: Monday nights at 7.30 pm.  
 Freq. - 146.500 MHz. Meet at Education Centre - Hopetoun St.

2 METRE SCRAMBLE: Sunday nights at 7.50 pm.  
 Freq. - 146.425 MHz. to 146.600 MHz. Call back on VK3RBA.

MEETINGS: Last Friday of every month at 7.30 pm. at  
 Ballarat Community Education Centre  
 Hopetoun St. Ballarat.

### CLUB CORRESPONDENCE TO:

The Secretary  
 B. A. R. G. Inc.  
 P.O. BOX 1261  
 MAIL CENTRE BALLARAT  
 3354

NEWSLETTER ARTICLES TO:  
 29 Lawrence St.  
 Alfredton  
 Ballarat  
 Vic. 3350

### LIFE MEMBERS

|              |              |
|--------------|--------------|
| MAURIE BATT  | VK3XEX       |
| KEVIN HUGHES | VK3WN        |
| IAN McDONALD | VK3AXH       |
| PHIL SEDDON  | VK3AQM       |
| GEORGE SMALL | VK3DKJ (DEC) |
| STAN WIDGERY | VK3SE        |

DISCLAIMER : Whilst every care is taken in the preparation and reporting of events and articles in this newsletter, the Ballarat Amateur Radio Group Inc. its officers and members do not accept any liability for any disputed article or comment. Views expressed in this newsletter are not necessarily those of the Editor or the Committee of B.A.R.G. Inc.. Projects are presented in good faith and are assumed to have been validated by the contributor. Reproduction of articles for use in other Radio Club magazines is permissible providing acknowledgement of the source is given.





MEETING OPENED by President IAN VK3 FD at 7.45pm. 41 members in attendance.

APOLOGIES VK3 XEX, DS, DMK, YMW, PAP, NIZ, SE, BNC, ATA.

MINUTES of previous meeting as circulated in Newsletter conformed. CFH/CAZ.

CORRESPONDENCE IN. Letter of thanks from Eureka Apex Club for help with communications at Triathlon organised by Cliff CCB.

CORRESPONDENCE OUT. to Eureka Apex Club returning donation of \$200.00 in accordance with Club Policy not to accept payment for assistance to Service Clubs.

TREASURERS REPORT General a/c. \$176.74. St. George Bank \$4234.83. Accounts passed for payment \$318.00. KGL/EF

CLUB NET John CFL reported that the net is still being well supported.

EDUCATION 9 students have enrolled for the course at BRACE.

PUBLICITY & NEWSLETTER. Norm LBA is once again in need of articles.

WICEN Gordon FGC thanked all who assisted at the Begonia Car Rally which was very successful. Communications for the Fun Run on 7th March are organised. Identification photographs will be taken at the next Club Meeting and all WICEN members are requested to be in attendance.

MEETING CLOSED at 8.30pm and after a coffee break Robin Gladwin, VK3 ENX Publicity Officer for ALARA gave us a most entertaining talk.

#####

73 Jim CFB.

## PRESIDENT'S REPORT

This year has certainly begun with a lot of activity. There seems to have been so many activities with so little time and human resources to go around. The new year has certainly been very busy for me, both at home and at work, with a lot of new and interesting developments. I am presently working on a new system of interactive television which in time, will bring education into your home. No longer will you have to attend a college to participate in classes.

Our thanks must go to Tom VK3DMK and his team for their efforts in the education and examination of new candidates to our hobby. The team is very dedicated and the success rate is a tribute to their skills.

Thanks must also go to Gordon VK3FGC, Cliff VK3CCB and all operators who provided such excellent communications teams for the Triathlon, the Begonia Car Rally and more recently the Courier Classic. Personally, I don't know how you can keep track of all of the reporting, scoring and incidental activity that occurs, but however you do it, you do a good job and we thank you for it. Your efforts are certainly putting the Club in a good light in the Community.

The natter nights still seem to be very popular and appear to be of value to those who attend, and please feel free to bring along your wife or your friend so that we may meet and get to know them better.

It was a delight to listen to our guest speaker, Robin Gladwin VK3ENX, at our February meeting. Robin spoke on the ladies' viewpoint on Amateur Radio and her comments placed a new perspective on our hobby. Thanks go to Mary Curnow VK3FMC for looking after Robin and Colin during their visit.

The John Moyle contest is coming up soon, so at the next natter night we shall have to make some arrangements for this popular event, as some members have indicated that Flagstaff Hill would be a good location to 'set up shop'. I look forward to seeing you at the Natter Night 73 de Ian VK3FD.





## SHUTTLE MISSIONS - MARCH/APRIL

The following article is reproduced from the Newsletter of the Hervey Bay Amateur Radio Club and contains requests made by the shuttle crews through the Johnston Space Centre, in regard to the 3 shuttle flights STS-55, STS-56 and STS-57 due to take place in March/April.

OPERATION WILL BE ON SPLIT FREQUENCIES

PLEASE DO NOT TRANSMIT ON THE DOWNLINK

### VOICE

Downlink (shuttle transmits) on 145.550 MHz  
Uplink (ground transmits) on 144.910, 144.930, 144.950,  
144.970, 144.990 MHz.

We'll listen on these frequencies to help to spread out the pile up a bit. Successful QSO's on voice will be facilitated by using standard phonetics for your call sign.

WE WILL NOT ANSWER ANY STATIONS USING NON STANDARD PHONETICS

Use your entire callsign - we log with an audio tape recorder. DO NOT USE OUR CALL SIGN - passes are very short and we want to work as many folks as possible.

### PACKET

Downlink (shuttle transmits) 145.550 MHz.  
Uplink (ground transmits) 144.490 MHz. (worldwide)  
If possible decrease your radio's deviation to 3KHz and compensate for the dopler shift. If you cannot, then wait 90 secs. after we come over the horizon before transmitting.

### REMEMBER

Do NOT call the shuttle by name.  
Do NOT call individual crew members.  
Do say your callsign clearly.  
Do consider others.  
Do give your Name, Signal report, and (if time) your QTH.  
Do NOT give your life history - others are waiting.  
Do NOT try for multiple contacts. One is sufficient for a QSL card and there will be others who will miss out.

(Our thanks to the Hervey Bay Radio Club, VK4KIV (ANDY JOICE) and the Johnstone Space Centre. Ed.)

### WHEW! WHAT A RELIEF.

>>>> <<<<

An elderly lady, a passenger on a Boeing 747, was very, very concerned about having to fly out of Sydney at night.

She enquired of a female flight attendant.. "How can the pilot see where he is going .. it's so dark outside."

With that, the sharp witted young flight attendant pointed out the elderly passenger's window, indicating the navigation light on the starboard wingtip. "Do you see that green light out there madam?"

"Yes" said the elderly lady.

Then the hostie pointed out through the port window on the other side of the aeroplane. "And do you see that red light over there?"

"Yes" said the lady.

"Well ... " said the flight attendant,... "as long as the pilot keeps the aeroplane between those two lights, we're okay."

"Oh good.." said the lady "that's a relief."

(From 'Australian Aviation' September 1990)

<<<<<< >>>>>>

### NOTICE FROM NEVILLE

I WISH TO STATE THERE IS NO TRUTH IN THE RUMOUR THAT I HAVE BEEN SEEN WALKING BACKWARDS OF LATE, DUE TO THE AMOUNT OF CRUSTACEANS (YABBIES) THAT I HAVE BEEN EATING. WHEN THE DEVOURING OF THIS LOT IS COMPLETED I SHALL BE LOOKING FOR MORE.

Many thanks to those who have been giving me WX reports while I have been marine mobile since Xmas, using CH7 Mt William repeater.

73 Neville VK3CUH

IT'S THE HINGE THAT SQUEAKS THAT GETS THE GREASE.



## COMING EVENTS

### March:

12th. Natter Night  
(WICEN Rally Debriefing)

13th/14th.  
Begonia Festival

20th. and 21st.  
John Moyle Contest

21st: Bendigo Hamvention

26th: BARG Meeting  
(WICEN Night-Photos)

### April:

9th. Good Friday

16th: Natter Night

30th: BARG Meeting

### May:

14th: Natter Night

28th: BARG Meeting  
(Junk Auction)

### June:

\*Dick Smith Balloon  
flight across Aust.  
\* Novice Contest

11th: Natter Night

12th-14th.  
Queen's Birthday  
Mallee Rally

25th: BARG Meeting

### July:

9th. Natter Night

30th: BARG ANNUAL G. M.

### August:

\*14th: R. D. Contest  
\*15th: R. D. Contest

27th: BARG Meeting

\* Dates not confirmed.

# NOTICE BOARD



## INTERESTED IN QRP ?

A FEW COPIES OF THE QRP CLUB'S MAGAZINE  
'LOW KEY' ARE AVAILABLE ON LOAN ONLY TO  
INTERESTED MEMBERS OF B.A.R.G.

IF YOU HAVE AN INTEREST IN THIS FACET OF  
OUR HOBBY CONTACT: MERV QUINN VK3ADX.

A/H PHONE: 322584 DAYTIME: CHANNEL 50.

## FOR SALE

'TAMAPHONE' HAND HELD  
FITTED WITH 452.325 MHZ XTALS  
WITH BATTERIES BUT NO ANTENNA

\$40.00 ONO  
\*\*\*\*

## WANTED

2 OFF 147.550 MHZ. XTALS  
TO SUIT PACKET SETUP

RICHARD - VK3JFL

<<< >>>

SCHOOLS IN



## 'MAGNETIC' SIGN MATERIAL

MEMBERS WISHING TO OBTAIN THIS  
MATERIAL TO MAKE UP WICEN AND  
DANGER - R.F. SIGNS ARE ADVISED  
THAT IT CAN BE PURCHASED FROM  
"COPPENS SIGNS" HOWITT ST.

## NEXT MEETING

WICEN IDENTIFICATION CARDS  
At the March meeting photographs  
will be taken and identification  
cards supplied for DISPLAN use.

## FOR SALE

LODESTAR Audio Signal Generator  
In excellent condition  
\$60.00

G.W. 40MHz Dual Trace Oscilloscope  
with probes and owners manual.  
In excellent condition.  
\$850.00

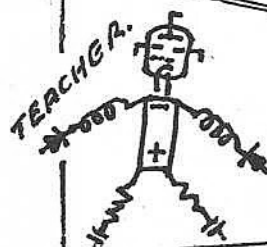
NEVILLE VK3CUH Phone: 053-582733

## FOR SALE

35 AMP PWR SUPPLY  
GME ELECTROPHONE

\$400 ONO

IAN VK3EF 332904





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## SAMUEL MORSE 1791 - 1872

The first practicable telegraph system, so essential to the development of communications during the second half of the 19th. century, (and the stumbling block for prospective Amateurs in more recent years) was the work of a professional painter and amateur scientist, Samuel Morse.

From the beginning, side by side with Morse's preoccupation with art, there went an interest in science and particularly in electricity. In 1832, when returning from a trip to Europe he overheard a shipboard conversation about the development of the electromagnet by Joseph Henry, and that Henry had succeeded in sending an impulse along a one mile length of wire. The impulse had been generated by a battery and had rung a bell attached to a magnet armature at the other end. The idea of incorporating the electromagnet as a basis for a wire telegraph system took root in Morse's mind, and he immediately began work on designing transmitters and receivers, the prototypes of which he developed in 1835. In 1837 he abandoned his painting altogether to concentrate on his invention and within a year evolved the Morse Code, the dots and dashes which correspond with the letters of the alphabet and numerals.

Morse now began to construct the first long-distance telegraph line which was made of 37 miles of iron wire strung between posts, with glass door knobs as insulators.

History was made on 24th. May 1844 when the telegraph wire carried its inaugural message: "What hath God wrought!"

The spread of the telegraph encountered initial difficulties, for people still feared the effects that the electricity passing over their land might have, some even purporting that the line was upsetting the weather and destroying their harvests. Nevertheless the telegraph played a 'key' role in opening up the American West.

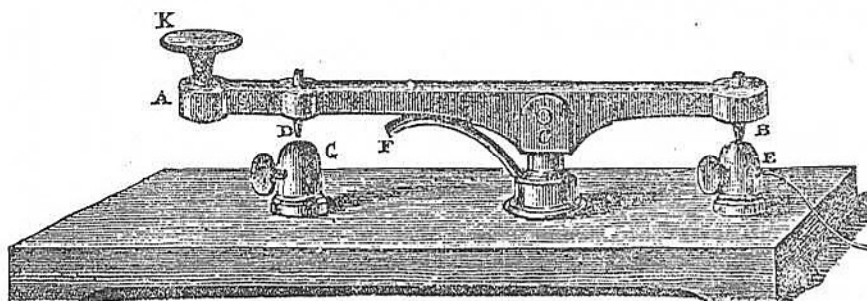
Morse himself became embroiled in prolonged litigation to defend his patents and fight off rival claims. His failure to acknowledge the contributions of others to his invention is usually seen as the most discreditable side of his character. In particular, without the invention of Joseph Henry of a system of relays to boost the signal at intervals, the whole project would have been unworkable.

The Morse Key for tapping out the code remained fairly consistent in basic design, but the receiving registers went through a series of developments which started with a stylus embossing a continuous roll of paper, then inking devices, and when it was found that trained operators could easily learn to read the signals the code was modified to facilitate accents and other languages.

Samuel Morse, in his old age, contributed to the funds of educational and missionary institutions and by the time of his death the telegraph system to which he gave his name was in use throughout the world.

### Morse's 'Transmitting Plate'.

Many operators found it difficult to learn to time the signals accurately so Morse invented this tablet consisting of an ivory base and protruding strips of metal, the lengths of which corresponded to the code, and were soldered to a rear metal base plate which was connected to the battery. The operator ran a rod, connected to the transmitter, across the chosen character on the tablet and the intermittent contact produced a correctly timed transmission.



| A  |                 | B  |                 |
|----|-----------------|----|-----------------|
| A  | · —             | ST | · — · —         |
| B  | · — · —         | T  | · —             |
| C  | · — · — · —     | U  | · — · —         |
| CH | · — · — · — · — | Ü  | · — · — · —     |
| D  | · — · —         | V  | · — · — · —     |
| E  | · —             | W  | · — · — · —     |
| F  | · — · — · —     | X  | · — · — · — · — |
| G  | · — · — · —     | Y  | · — · — · — · — |
| H  | · — · — · —     | Z  | · — · — · — · — |
| I  | · — · —         | 1  | · — · — · — · — |
| K  | · — · — · —     | 2  | · — · — · — · — |
| L  | · — · — · —     | 3  | · — · — · — · — |
| M  | · — · —         | 4  | · — · — · — · — |
| N  | · — · —         | 5  | · — · — · — · — |
| O  | · — · — · —     | 6  | · — · — · — · — |
| P  | · — · — · —     | 7  | · — · — · — · — |
| Q  | · — · — · —     | 8  | · — · — · — · — |
| R  | · — · — · —     | 9  | · — · — · — · — |
| S  | · — · —         | 0  | · — · — · — · — |

THE TRANSMITTING PLATE







93/03 08

### A CLUB RECORD?

After some coaching from Doug VK3VBA Dean Speedie sat for, and passed, his regulations exam on 22nd. February '93. Dean will be 14 in September. If he could obtain his licence before his birthday (he is currently attending the Club Novice classes) would this be a Club record for the youngest licence holder ?

HI !

Overheard in Canberra airspace.

It was early summer, daylight saving had just started and the time in Canberra was 12.30pm. In the Sunshine State it would have been only 11.30pm.

A TAA DC9 jet (VH-TJU) was inbound to Canberra.

VH-TJU: (Very chirpy) "Canberra approach, good morning this is VH-TJU descending to nine thousand."

APPROACH: "Tango Juliet Uniform this is Canberra good afternoon descend to seven thousand feet."

VH-TJU: "Tango Juliet Uniform going to seven thousand and er (hesitantly) you're right it is good afternoon! You must remember though that we are a Queensland crew!"

APPROACH: "Tango Juliet Uniform - In that case then Good Yesterday!"

(From 'Australian Aviation' March 1989.)



### IN 1954

THE FIRST TRANSISTOR WAS DEVELOPED BY THE REGENCY ELECTRONICS COMPANY IN INDIANAPOLIS U.S.A. IT MEASURED: 7.5cm X 12.7cm X 3.1cm. AND WEIGHED 339g.

### WORD SEARCH FOR INTERFERENCE

N S C Z K C R A T S R U E U V S G Y  
F E S S H R X O V E R L O A D H Z L  
I S G S A O A B S I Y U O V R R O M  
L S S A R S I D E B A N D W A V M U  
T W U P M S P R I U C W A M P E N T  
E R T H O M A L P A H X U L O A T R  
R Z K G N O M T A E T T I T K S S O  
O T U I I D Y G S T V I J O M U H S  
L Y P H C U T T V Y T T O E U M A E  
V O A E S L S T M W M E O N S S S S  
I S R R F A J E W S U A R O S L C U  
O A A T H Y E S I Y I X M Z O T M A  
I L S Z R I T C E T T R S L T O Y R  
W G I S T O S C I L L A T H O N O M  
V A T I N E V F O I R A N U Y T R  
T L I X M R E T U R A S E E R R N Z  
J S C A T R O M V R T X E A V R M D  
T I A S M S S U A Y O M R R O X T

BCI  
HERTZ  
OSCILLATIONS  
SIDE BAND

CROSS MODULATION  
HIGH PASS  
PARASITIC  
SPLATTER

FILTER  
LOW PASS  
RADIATION  
TVI

HARMONICS  
NON LINEAR  
RX OVERLOAD  
\*

Printed for INTERFERENCE by Little Red Hen on RS-005

### B.A.R.G. 2 METRE SCRAMBLE RESULTS

#### SCORES AS OF 26-02-93

|            |            |
|------------|------------|
| VK3DCS     | 289 POINTS |
| VK3EF      | 282 POINTS |
| VK3DET     | 278 POINTS |
| VK3KAY     | 255 POINTS |
| VK3CAZ     | 225 POINTS |
| VK3JFL/VEN | 220 POINTS |
| VK3LBA     | 219 POINTS |
| VK3DOK     | 180 POINTS |
| VK3FMC     | 143 POINTS |
| VK3CIS     | 38 POINTS  |
| VK3XDQ     | 24 POINTS  |
| VK3TAR     | 12 POINTS  |
| VK3YMW     | 9 POINTS   |

LOG SHEETS MUST BE SUBMITTED TO IAN-VK3EF TO BE ELIGIBLE FOR PRIZE  
=====

MEMO: To those who QSY 2M SSB.  
Danny's got a rig now.

### MIDLAND AMATEUR RADIO CLUB

#### CONVENTION

SUNDAY 21st. MARCH 1993

10.00 AM TO 4.00 PM

ENTRY - \$3.00.

ENTRY + LUNCH - \$10.00

FAMILY + LUNCH - \$25.00

CHILD U12 + LUNCH - \$6.00

